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(Reaffirmed 2006)

Indian Standard

SPECIFICATION FOR TRIMMERS, ELECTRICALLY OPERATED, FOR DENTAL MODELS

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SPECIFICATION FOR TRIMMERS, ELECTRICALLY OPERATED, FOR DENTAL MODELS

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Indian Standard

SPECIFICATION FOR TRIMMERS, ELECTRICALLY OPERATED, FOR DENTAL MODELS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 16 September 1981, after the draft finalized by the Dental Equipment Sectional Committee had been approved by the Consumer Products & Medical Instruments Division Council.

0.2 Model trimmers are used extensively by the dentists for trimming by grinding the dental models and to bring them into desired shape. This standard covers functional requirements and is expected to help in providing equipment of uniform quality.

0.3 This standard contains **4.1** which calls for agreement between the purchaser and the supplier.

1. SCOPE

1.1 This standard covers the requirements for model trimmers used in dentistry.

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definition shall apply.

2.1 Model Trimmer — A motor-operated grinding stone capable of removing excess plaster and trimming by grinding the dental models and to bring them into desired shape.

3. REQUIREMENTS

3.1 The electric motor shall be capable of delivering an output of 180, 250 or 370 watts with a minimum speed of 1 350 rev/min. The motor shall be of capacitor-start induction-run type and shall conform to IS : 996-1979*. The enclosure shall be of totally enclosed fan cooled type.

*Specification for single-phase small ac and universal electric motors (*second revision*).

3.2 A well balanced rough circular grinding stone of diameter 300 mm shall be fixed on the right-hand side of the platform used for supporting the model for trimming.

3.3 The grinding stone shall be enclosed in a split cast-iron or aluminium cover of diameter 330 mm. The cover shall have an opening only at the window. The split cover shall be suitably designed for easy operation to change the stone face or removal of stone.

3.4 A platform to support the model and press the same against the stone shall be provided. The platform on the trimmer shall be adjustable to any position near the wheel.

3.5 The platform shall be fitted by means of a thumb nut and shall be removable when required for cleaning and washing operations.

3.6 The details of the platform and its fixing arrangement to the cover shall be as shown in Fig. 1.

3.7 An arrangement shall be made as shown in Fig. 1 for directing a strong jet of water against the stone face for washing down the plaster slurry and bits adhering to the stone.

3.8 A draw pipe shall be fitted to the equipment to drain washed water containing plaster bits slurry.

3.9 A thick backing plate of aluminium shall be fitted behind the stone to prevent the same from breaking under pressure.

3.10 The motor and stone enclosure shall be mounted on a mild steel or aluminium base of suitable thickness.

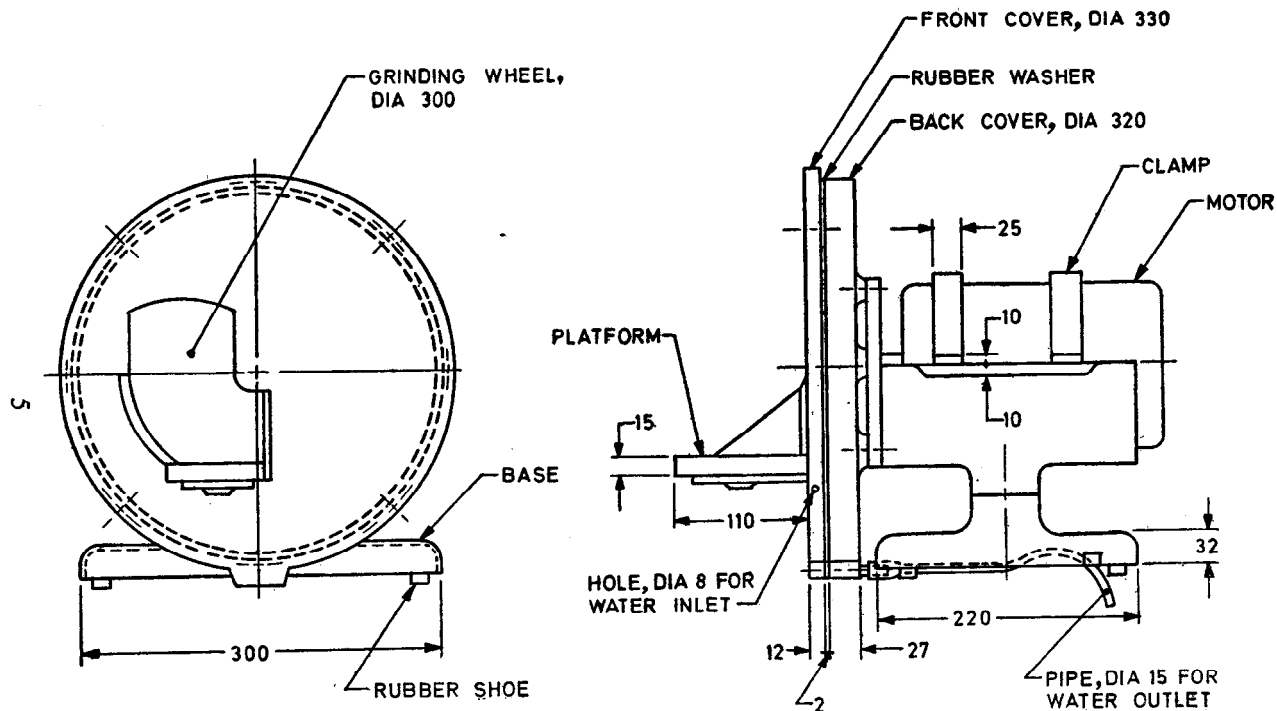
NOTE — The requirements of grinding stone shall be incorporated in due course.

4. FINISH

4.1 The complete unit shall be finished by painting with a water-proof hard enamel. The finish shall be smooth and the colour as agreed to between the supplier and the purchaser.

5. MARKING

5.1 Each model trimmer shall be marked with the name or registered trade mark of the manufacturer and the country of manufacture.



All dimensions in millimetres.

FIG. 1 TRIMMER, ELECTRICALLY OPERATED, FOR DENTAL MODELS

5.2 The model trimmers may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

6. PACKING

6.1 Each model trimmer shall be packed to ensure safe delivery of the trimmer in a suitable casing with soft packing material like wood-wool.